TILE NOTHETOMS	/		
Intered in NID File	V	Checked by Chief	,
ocation Map Pinned	•••	Approval Letter	•
Indoved		Disapproval Letter	•

COMPLETION DATA:

ard Indexed

te Well Completed

W.... WW.... TA....

GW.... OS.... PA....

Location Inspected

Bond released

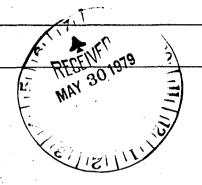
State or Fee Land

Driller's Log..... Electric Logs (No.) E..... I.... Dual I Lat..... GR-N.... Micro..... BRC Sonie GR...... Lat..... Male..... Sonic...... CHARLE...... CCLAR..... Others..........

First National Bank Building P. O. Box 359 Casper, Wyoming 82602 307/234/1593

May 25, 1979

Mr. Ed Guynn, District Engineer U.S. Geological Survey 8440 Federal Building 125 South State Street Salt Lake City, Utah, 84111



Sowers Canyon Fed. 27-/
Re: Burton/Hawks, Inc.
4-Well Program
South Uinta Prospect
Duchesne County, Utah

Dear Ed:

Enclosed please find the following data in reference to the above prospect:

- 1. Applications for Permit to Drill, Form 9-331C (4 wells)
- 2. Location plats (4 wells)
- 3. 10-Point Programs (4 wells)
- 4. MSUOP and associated exhibits (4 wells)

A Federal blanket bond is currently being obtained and the archaeological clearance is being mailed directly to you.

Since we are on an extremely short fuse on these wells, I would appreciate any help you can give us in regard to an early on-site inspection.

Thank you for your continued cooperation.

Yours very truly,

BURTON/HAWKS, INC

Gienn R. Bochmann Field Representative

GRB/jo

Enclosures

cc: Joe Fransen, District Ranger Ashley National Forest Duchesne, Utah

SUBMIT IN TRIE (Other instruct reverse side

Form approved. Budget Bureau No. 42-R1425.

UNTED STATES DEPARTMENT OF THE INTERIOR 5. LEASE DESIGNATION AND SERIAL NO. # g GEOLOGICAL SURVEY U-8919 ~ A ○ 6. IF INDIAN. ALLOTTEE OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 1a. TYPE OF WORK 7. UNIT AGREEMENT NAME DRILL 😾 DEEPEN [PLUG BACK Indian Canyon Unit b. TYPE OF WELL MULTIPLE 8. BARM OR LEASE NAME SINGLE OIL WELL X **MB** 0.00 WELL ZONE OTHER = 2. NAME OF OPERATOR 9. WELL NO. Burton/Hawks, Inc. No. 27-1 Sowers Canyon-Fed. 3. ADDRESS OF OPERATOR 10. FIELD AND POOL, OR WILDCAT P. O. Box 359, Casper, Wyoming 82602 Wildcat 2 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) 11. SEC., T., R., M., OR BLK.
AND SURVEY OR ABEA SE¼ NE¼ (1064' FEL/2400' FNL) i in At proposed prod. zone Sec. 27, T6S-R6W 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE 12. COUNTY OR PARISH | 13. STATE Utah Duchesne 43 miles SW Duchesne, Utah

10. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT. 17. NO. OF ACRES ASSIGNED 16. NO. OF ACRES IN LEASE £ 18 ° 4 TO THIS WELL 160.00 1064' 1278.50' (Also to nearest drlg. unit line, if any) 20. ROTARY OR CABLE TOOLS 18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED, 19. PROPOSED DEPTH and Any Rotary 3900' OR APPLIED FOR, ON THIS LEASE, FT. N/A 22. APPROX. DATE WORK WILL START* 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 8 ₹**1**979 June 1, 7357' GR 1 34.5 23. PROPOSED CASING AND CEMENTING PROGRAM ig g ; · QUANTITY OF CEMENT WEIGHT PER FOOT SETTING DEPTH SIZE OF CASING SIZE OF HOLE 9-5/8" 300' To surface ن جَاتِيًا عَ K-55 12-1/4" 36# (If producer) 8-3/4" 20# K-55 3900' o w atamen Nor i stell Nort asse, haor levice Proposed Program ывыцота differences See attached Well Synopsis. Sina on Lease Description RIM T6S-R6W UM Sec. 27 Lot 1; E/2; W/2 NW4; SE4 NW4, SW4 Sec. 35 All 1278.50 Acres BOP Program भ्रात्री हो See attached 10-Point Program. 9 x ્ર IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any. 13 00 100 7 24. ď Field Representative SIGNED Zeegrand Andrews 76 or 11 176 (This space for Federal or State office . ,:00 $v \in \mathbb{Q}$ ž <u>ž</u> 717 1 6 The made APPROVAL DATE PERMIT NO ACTING DISTRICT ENGINEER APPROVED BY . 000 state i CONDITIONS OF APPROVAL, IF ANY :

BURTON HAWRS INC.

Local in the SE% of the NE% of Sec 27, T6S, R6W, U.S.B.&M.

27-1 SOWERS CANYON FEDERAL

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NOTES

THE BASIS OF BEARINGS FOR THIS SURVEY WAS OBTAINED FROM UTAH POWER AND LIGHT DATA OBSERVATIONS. ORIGINAL GENERAL LAND OFFICE NOTES WERE USED FOR REFERENCE AND CALCULATIONS.

SURVEYOR'S CERTIFICATE

I hereby certify that this plat was prepared from field notes of an actual survey performed under my direct supervision.

> Jerry D. Allred, Registered Land Surveyor, Cert. No. 3817 (Utah)

ALL

ALLRED - PEATROSS ASSOCIATES
Surveying & Engineering Consultants
P. O. Drawer C
DUCHESNE, UTAH 84021

17 May '79

Nº 26025

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DRAFT Re-Draf		Casper, Wyoming April 12,1979
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CUSTOMER'S With privilege of	Consideration for easement temporary 27-1	death canyon period until august 15 1979
	TO: Burton/Hawks, Inc.	March There is
	P.O.Box 359	A Such Is Milled
	Casper, Wyoming 82602=	Bruce A. Studer
		Proce v. Ochidat
	DETACH BEFORE BRECENES	
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In consideration of the payment to the undersigned by Burton/Hawks, Inc., of Ten and more Dollars, receipt and sufficiency of which is hereby acknowledged, we do hereby grant and convey to the said Burton/Hawks, Inc. a right—of—way upon, over and accross the lands owned or controled by us hereinafter described for the purpose of transporting machinery, equipment, supplies, tools, personnel and other persons and items necessary to be transported for the drilling of oil and gas wells. The said right—of—way granted to be a minimum of 30 feet wide and sutable for passage of commercial and oil field vehicles,

Township 6 South, Range 5 West, U.S.M. Duchesne County, Utah

Section 7: E½NE¼SE¼SE¾, Sw¼NE¼SE¼SE¾, N½SE¼SE¾SE¾, NE¾SW½SE¾SE¾SE¾, S½Sw¼SE¾SE¾SE¾

Section 8: N½NW¼SW¾, NE¾SE¾NW¾, SE¾NW¼SE¾NW¾, NE¾SW¾SE¾NW¾, W½SW¾SE¾NW¾, W½SW¾SE¾NW¾, E½SC¾SW¾NW¾, SW¾NW¾SW¾, SW¾NE¾NW¾SW¾, SW¾NE¾NW¾SW¾, SW¾NW¾SW¾, SW¾NW¾SW¾

IN WITNESS WHEREOF, we sign this 27 day of april 1979

HITTHE OF UTAH STATE OF DUCHESNE)

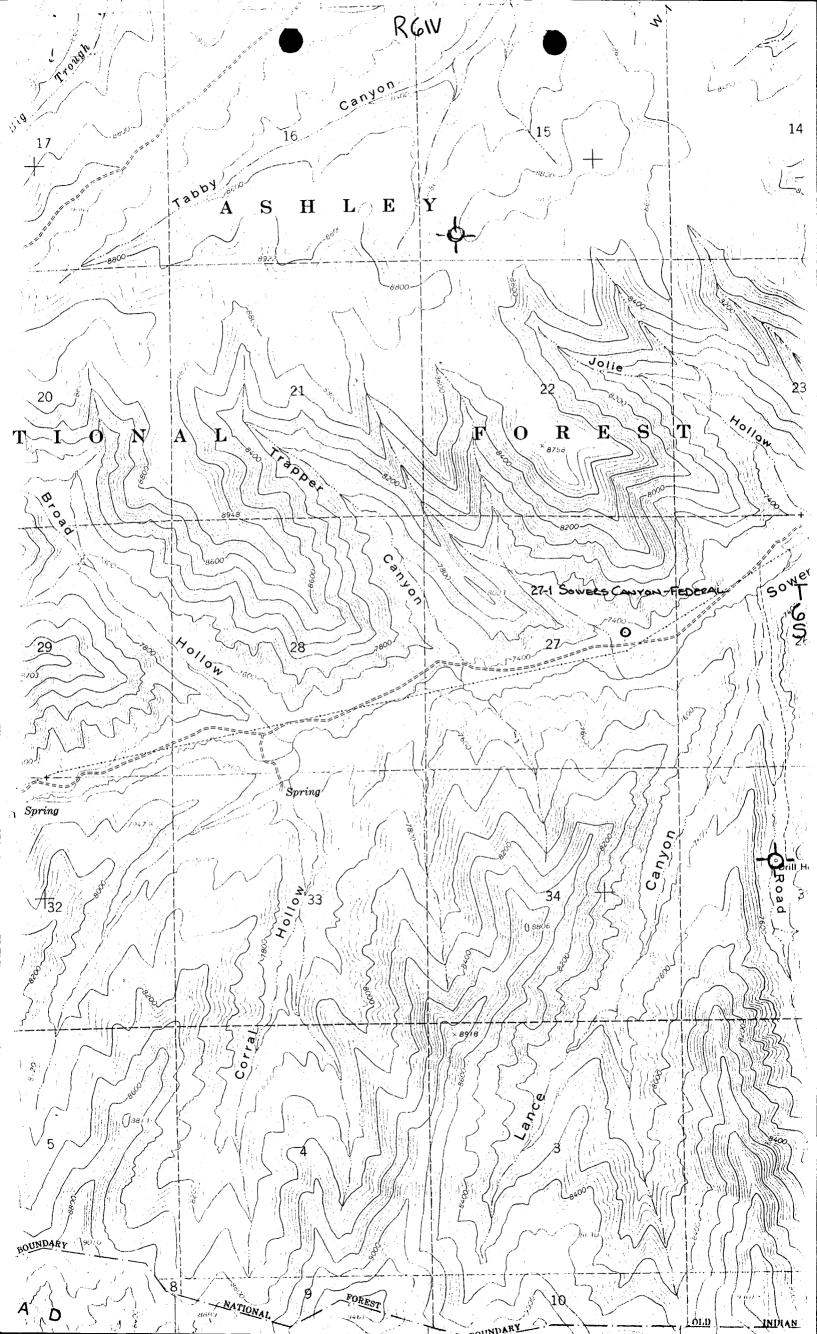
On this 27 day of 1979, before me appeared

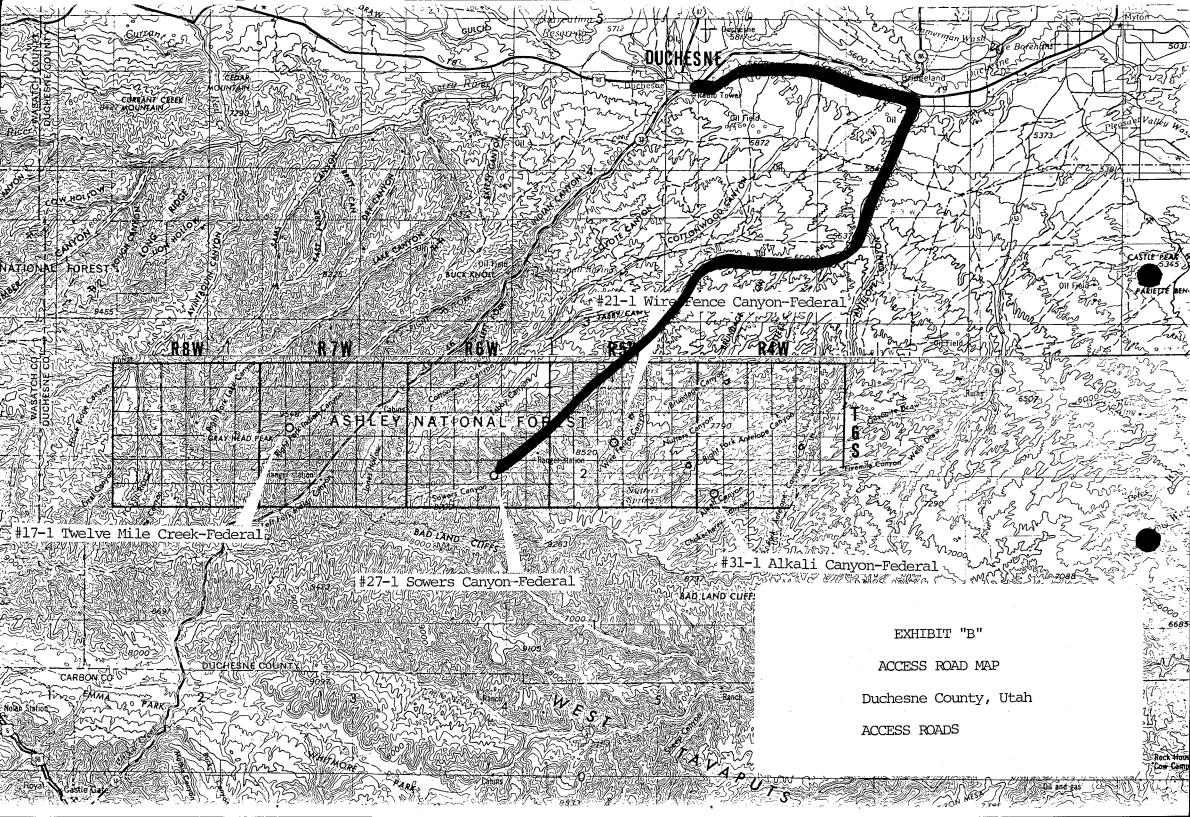
Molician J. Motatl, to me personally know, who, being by me duly sworn did say he signed the same as of his own free and voluntary act and deed for the purposes as therein set forth.

Witness my hand and seal the day and year last above written.

My Commission expires:

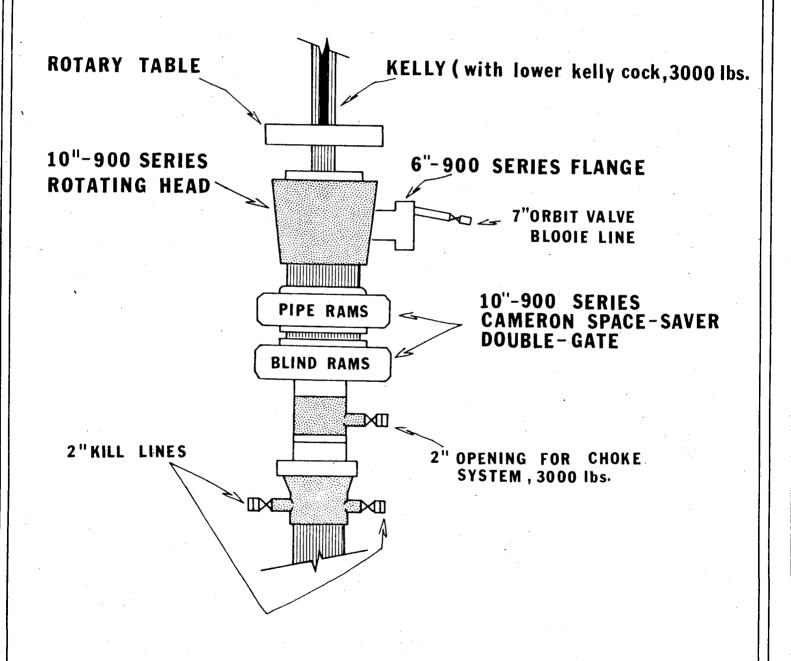
Notary Public





Burton Hawks Drilling Co.

BOP STACK



rig no. 1

NOT TO SCALE

WELL PROGNOSIS

Indian Canyon Unit
Burton/Hawks, Inc.
#27-1 Sowers Canyon Federal
NE SE Sec. 27, T6S, R6W
Duchesne County, Utah

- 1. Move on spudder to drill conductor hole, and set 30° of 13-3/8, 48# conductor pipe with cement to surface.
- 2. Move on Burton/Hawks, Inc., Husky Drilling Rig #1.
- 3. Drill 12-1/4" hole to 300' and set 300' of 9-5/8", 36# surface casing with cement to surface.
- 4. Drill 8-3/4" hole to 3900' total depth with air. If commercial oil or gas production is encountered at a shallower depth, this will constitute total depth.
- 5. Run Inductin-Gamma Ray Log in air filled hole, and a Temperature Log is warranted. If the hole fills up with water, run an I-ES with Gamma Ray-SP Log. Run a Density GR Log, or a Neutron-Density-GR Log if a porosity log is warranted. Depending on hole conditions, completion string may be run prior to logging, with adequate cased-hole logs to follow.

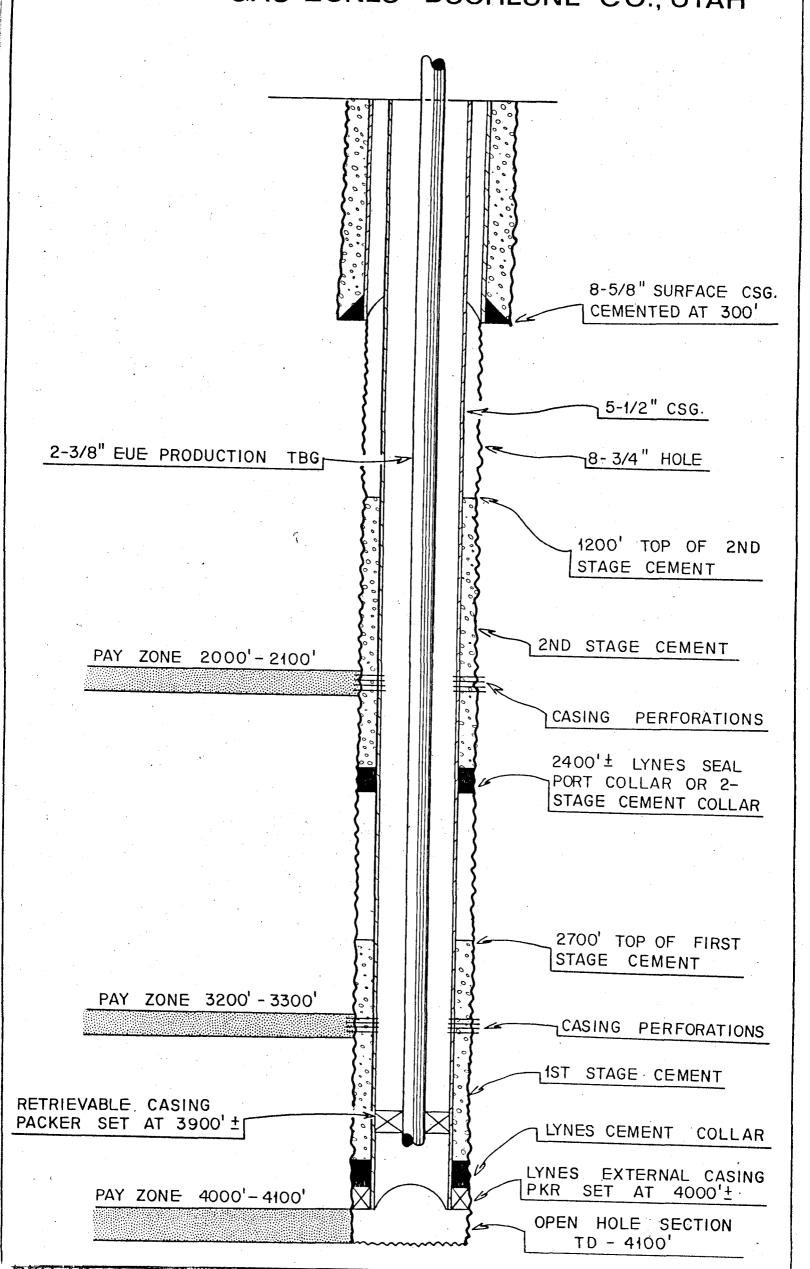
Projected Formation Tops:

	_				
Tertiary	Green	River	Forma	ıtion	Surface
				Zone	1600 '
			B -	Zone	2110'
			C -	Zone	2550 '
		Wire I	ence	Zone	2800 '
			D -	·Zone	2940 '
			E-	Zone	3270 '
Tert	iary Wa	astach	Forma	tion	3880 '
			otal D		3900 '

Completion:

The attached "Completion Methods" diagram applies to this well. Simple zone completions will be made with the Lynes packer only and there will be no upper perforations.

COMPLETION METHODS 3 --- GAS ZONES - DUCHESNE CO., UTAH



BURTON/HAWKS, INC. NTL-6 - PLAN OF OPERATION

DATE: May 17, 1979

WELL NAME: No. 27-1 Sowers Canyon-Federal

LOCATION: NE SE Section 27, T6S-R6W Duchesne County, Utah

#1 Existing Roads:

A. Proposed well site as staked. (Actual staking should include two each 200-foot directional reference stakes).

Exhibit A is a registered land surveyors plat of Section 14 showing the actual footage location of the subject well as measured from the section corners

B. Route and distance from nearest town or locatable reference point to where well access route leaves main road.

Exhibit B is a 1:250,000 scale map showing the location of the nearest town, Duchesne, Utah. The approximate distance is 43 miles southwest of said city. Access road colored blue on map.

C. Access road(s) to location color-coded or labeled.

Figure 1 is a topographic map (1"=2000') showing the access road (colored blue) and the new acces road (labeled and colored red).

- D. If exploratory well, all existing roads within a 3-mile radius (including type of surface, conditions, etc.)
- 1. Sowers Canyon Road; improved, gravel surface.
- E. If development well, all existing roads within a 1-mile radius of well site.

Not a development well.

F. Plans for improvement and/or maintenance of existing roads.

No plans for improvement of existing roads unless needed. Maintenance to be performed as required.

#2 Planned Access Roads:

Map showing all necessary access roads to be constructed or reconstructed, showing:

See Figure 1 (Topo Map)

BURTON/HAWKS, INC. PLAN OF OPERATION - 2

- #2 Planned Access Roads (continued)
- (1) Width

12'

(2) Maximum grades

68

(3) Turnouts

As required.

(4) Drainage design

Any new access roads will be sloped to insure proper drainage.

(5) Location and size of culverts and brief description of any major cuts and fills

As required.

(6) Surfacing material

Native material.

(7) Necessary gates, cattleguards, or fence cuts

As required.

(8) (New or reconstructed roads are to be center-line flagged at time of location staking)

No new access roads required.

#3 Location of Existing Wells:

Two-mile radius map if exploratory, or 1-mile radius map if development well, showing and identifying existing:

(1) Water wells

None Observed

(2) Abandoned wells
T6S-R5W - Section 24 SENW Gulf

T6S-R6W - Section 35 SEMV Humble

Section 15 SWSW Brinkerhoff

(3) Temporarily abandoned wells

None observed

(4) Disposal wells

None observed

(5) Drilling wells

None observed

BURTON/HAWKS, INC. PLAN OF OPERATION - 3

- #3 Location of Existing Wells (continued)
 - (6) Producing wells
 None observed.
 - (7) Shut-in wells

None observed.

(8) Injection wells

None observed

(9) Monitoring or observation wells for other resources

None observed

#4 Location of Existing and/or Proposed Facilities:

- A. Within 1-mile radius of location show the following existing facilities owned or controlled by lessee/operator:
 - (1) Tank Batteries

None

(2) Production facilities

None

(3) Oil gathering lines

None

(4) Gas gathering lines.

None

(5) Injection lines (Indicate if any of the above lines are buried)

None

(6) Disposal lines

None

B. If new facilities are contemplated, in the event of production, show:

BURTON/HAWKS, INC. PLAN OF OPERATION - 4

(1) Proposed location and attendant lines by flagging if off of well pad

See Exhibit C.

(2) Dimensions of facilities

Production pad (well pad) 210' x 375'

(3) Construction methods and materials

Area to be used for production facilities would be leveled with a dozer. Onsite native materials would be utilized.

(4) Protective measures and devices to protect livestock and wildlife

All pits would be fenced and would be flagged accordingly.

C. Plan for rehabilitation of disturbed areas no longer needed for operations after construction completed:

All disturbed areas not needed for operations will be contoured to match existing terrain and seeded with a seed mixture recommended by the U.S.F.S.

#5 Location and Type of Water Supply:

A. Show location and type of water supply either on map or by written description

Water will be obtained from a permitted source located in T5S-R5W Section 34 (Foy Ranch). See agreement.

B. State method of transporting water, and show any roads or pipelines needed

Water to be hauled by operators equipment over existing roads. Roads colored green on Figure 1.

C. If water well is to be drilled on lease, so state. (No APD for water well necessary, however, unless it will penetrate potential hydrocarbon horizons.)

No water well to be drilled on lease.

#6 Source of Construction Materials:

- A. Show information either on map or by written description Construction materials for proposed drillsite would be native materials from the location.
- B. Identify if from Federal or Indian land

Federal surface (Ashley National Forest).

C. Describe where materials, such as sand, gravel, stone, and soil material, are to be obtained and used

In the event that conditions should necessitate graveling of all or part of the access road and location, surfacing materials would be obtained from permitted gravel pits in the local marketing area.

D. Show any needed access roads crossing Federal or Indian lands under Item 2.

See Figure 1.

#7 Methods of Handling Waste Disposal:

Describe methods and location of proposed containment and disposal of waste material, including:

(1) Cuttings

Air drilled cuttings are blown to the blooie pit. It it becomes necessary to switch to mud drilling, drill cuttings would be contained in the reserve pit.

(2) Drilling fluids

Drilling fluids would be contained in the reserve pit.

(3) Produced fluids (oil, water)

Produced fluids would be directed to a test tank or pit for proper disposal.

(4) Sewage

A portable toilet is on location at all times. Sanitation and the disposal of waste will be accomplished within the framework of the Pollution Statement Act (E.O. 11507).

(5) Garbage and other waste material (trash pits should be fenced with small mesh wire to prevent wind scattering trash before being burned or buried)

Trash and other combustables will be burned in a pit that is covered with small mesh fencing. Other garbage will be enclosed in a fenced trash site to await final cleanup.

BURTON/HAWKS, INC. PLAN OF OPERATION - 6

- #7 Methods of Handling Waste Disposal (continued)
 - (6) Statement regarding proper cleanup of well site area when rig moves out

Immediately after the rig and associated drilling and testing equipment is off the location, the entire location will be policed for trash and other sorts of refuse.

#8 Ancillary Facilities:

Identify all proposed camps and airstrips on a map as to their location, area required, and construction methods. (Camp center and airstrip center lines to be staked on the ground).

No facilities intended for this location.

#9 Well Site Layout:

A plat (not less than 1" = 50') showing:

- (1) Cross sections of drill pad with cuts and fills
- See Exhibit D.
- (2) Location of mud tanks, reserve, burn and trash pits, pipe racks, living facilities, and soil material stockpiles

See Figure 2.

(3) Rig orientation, parking areas, and access roads:

See Figure 2.

(4) Statement as to whether pits are to be lined or unlined.
(Approval as used in this section means field approval of location. All necessary staking of facilities may be done at time of field inspection). A registered surveyor is not mandatory of such operations).

Pits will not be lined.

(5) The positioning of pump trucks, frac tanks, lines, etc.

See Exhibit E.

#10 Plans for Restoration of Surface:

State restoration program upon completion of operations, including:

(1) Backfilling, leveling, contouring, and waste disposal; segregation of spoils materials as needed

Upon completion of the operation and if the well is to be abandoned, the location will be backfilled, leveled and contoured to as nearly the original topography as is possible. Backfilling of pits and distured areas will be performed when pit areas are dry enought to support overburden of fill material. Leveling of pit dikes, will be done when contents are dry enough to handle earth moving equipment. Stockpiled topsoil will be distributed over area to facilitate revegatation. Waste disposal see No. 7 (6).

(2) Revegetation and rehabilitation - including access roads (normally per BLM recommendations)

This will be accomplished with the desires of the U.S.F.S. and their recommendation.

(3) Prior to rig release, pits will be fenced and so maintained until cleanup

During drilling operations the reserve pit and blooie pit will be fenced on three sides with the rig side remaining unfenced. This remaining side will be fenced as soon as the rig equipment is moved to allow fencing crews access. This fence will be sheep tight and kept in good repair until clean-up is undertaken.

(5) Timetable for commencement of rehabilitation operations

Commence clean-up operations as soon as possible after drilling operations are completed so that rehab operations can be performed after pits are dry enought to support top soil fill.

#11 Other Information:

General discription of:

(1) Topography, soil characteristics, geologic features, flora and fauna:

The surface is Tertiary Green River. The topography is sttep canyons. Location is in the flattest part of the canyon floor. Soil is generally sandy sediments. Flora consists of elk, deer, rabbits and various other rodents. Fauna consists of pine, cedar, sagebrush, creosot brush and range grasses.

(2) Other surface-use activities and surface ownership of all involved lands

Livestock grazing is the only other surface use activity noted. Surface is forest lands.

- (3) Proximity of water, occupied dwellings, archeological, historical, or cultural sites
- A. Water Intermittant small streams in the area.
- B. Occupied Dwellings None noted.
- C. Archaelogical sites See attached Archaelogical clearance
- D. Historical/Culteral sites None noted.

BURTON/HAWKS, INC. PLAN OF OPERATION - 8

#12 Lessee's or Operator's Representative:

Include the name, address and phone number of the lessee's or operator's field representative who is responsible for assuring compliance with the approved surface use and operations plan.

Burton/Hawks, Inc.

P. O. Box 359

Casper, Wyoming 82602

•	Office	Home	Mobile
Robert E. Wellborn	(303) 234-1593	265-8282	
Rance Denton	(303) 234–1593	266-0923	265-4506
Glenn R. Bochmann	(303) 234-1593	237-7038	

#13 Certificates:

The following statement is to be incorporated in the plan and must be signed by the lessee's or operator's field representative who is identified in Item No. 12 of the plan.

I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access roads; that I am familiar with the conditions which presently exist; and that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by BURTON/HAWKS, INC. and its contractors, subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Name and Title

Glenn R. Bochmann Field Representative

May 18, 1979

Date

10-POINT PROGRAM

BURTON/HAWKS, INC.

Attachment to Form 9-331-C "Application to Drill, Deepen, or Plug Back".

No. 27-1 Sowers Canyon-Federal NESE Section 27, T6S, R6W Duchesne County, Utah U-8919

GEOLOGIC NAME OF SURFACE FORMATION:

Tertiary Green River

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Tertiary Green River A-Zone - 1600'

B-Zone - 2110' C-Zone - 2550'

Wire Fence Zone - 2800'*

D-Zone - 2940'

E-Zone - 3270'

Tertiary Wasatch - 3880'*
Total Depth - 3900'

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS, OR OTHER MINERALS:

No high water bearing zones are expected. The formations marked with asterisk (No. 2 above) are potential productive formations.

CASING PROGRAM:

- Conductor Pipe 30' 13-3/8", 48# cement to surface Surface Casing 300' 9-5/8", 36# K-55 ST&C, cement to surface Production Casing 3900' 7", 20# K-55, ST&C cement with 200 sx ±

BOP PROGRAM (See Attached Figure 3):

- 10" 900 Series Rotating Head
- 10" 900 Series Cameron Space-Saver Double-Gate
 - 1. Pipe Rams
 - 2. Blind Rams
- Choke System, Kill lines. BOP's and choke manifold will be installed and pressure tested before drilling out from under surface casing and will then be checked daily as to mechanical operating condition.

6. DRILLING FLUIDS:

Air drilled hole, If a significant flow of water is encountered, soap mist drilling will be utilized.

7. AUXILIARY EQUIPMENT:

- Kelly Cock
- B. Drill pipe float
- C. A sub on the floor with a full opening valve to be stabbed into drill pipe when Kelly is out of string.

TESTING, LOGGING, CORING, AND FRACTURING:

- Continuous testing with air drilling.
- Run Induction-Gamma Ray Log in air filled hole, and a Temperature Log if warranted. If the hole fills with water, run I-ES with GR-SP Log. Run a Density-GR Log, or a Neutron-Density GR-Log if a Porosity Log is warrented. Depending on the hole conditions, completion string may be run prior to logging, with adequate cased hole logs to follow.
- C. No coring anticipated.
- Fracturing or stimulation plans not known at this time. In the event this is needed, Sundry Notice will be filed outlining this program.

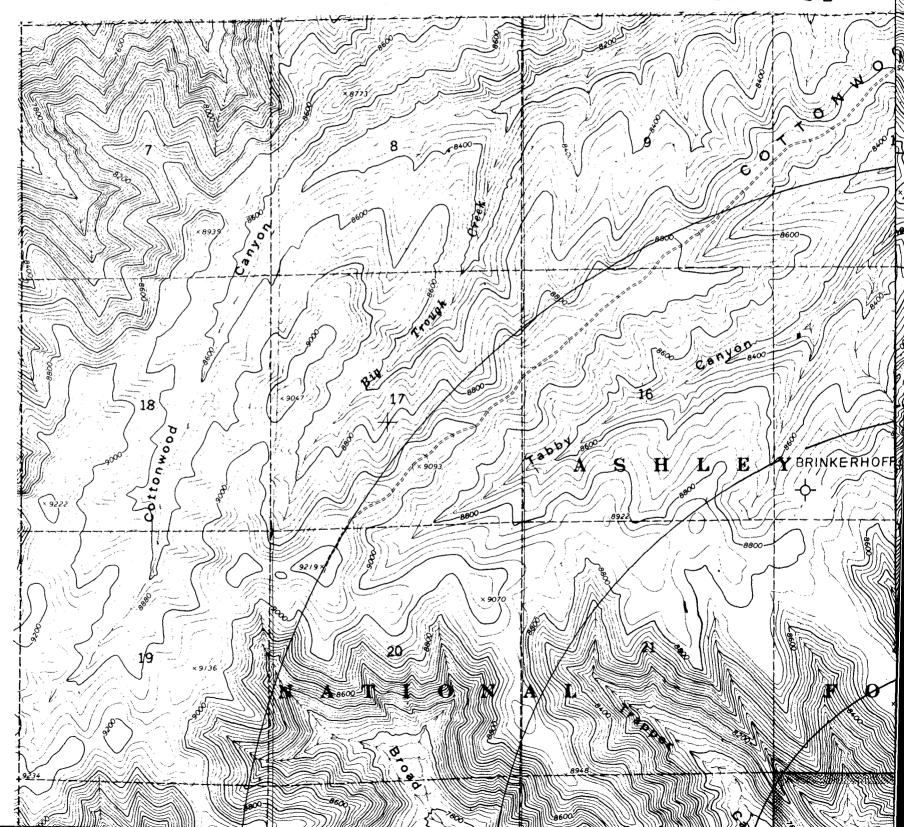
9. ABNORMAL PRESSURES OR TEMPERATURES:

No abnormal pressures or temperatures are known based on information from other wells in the area.

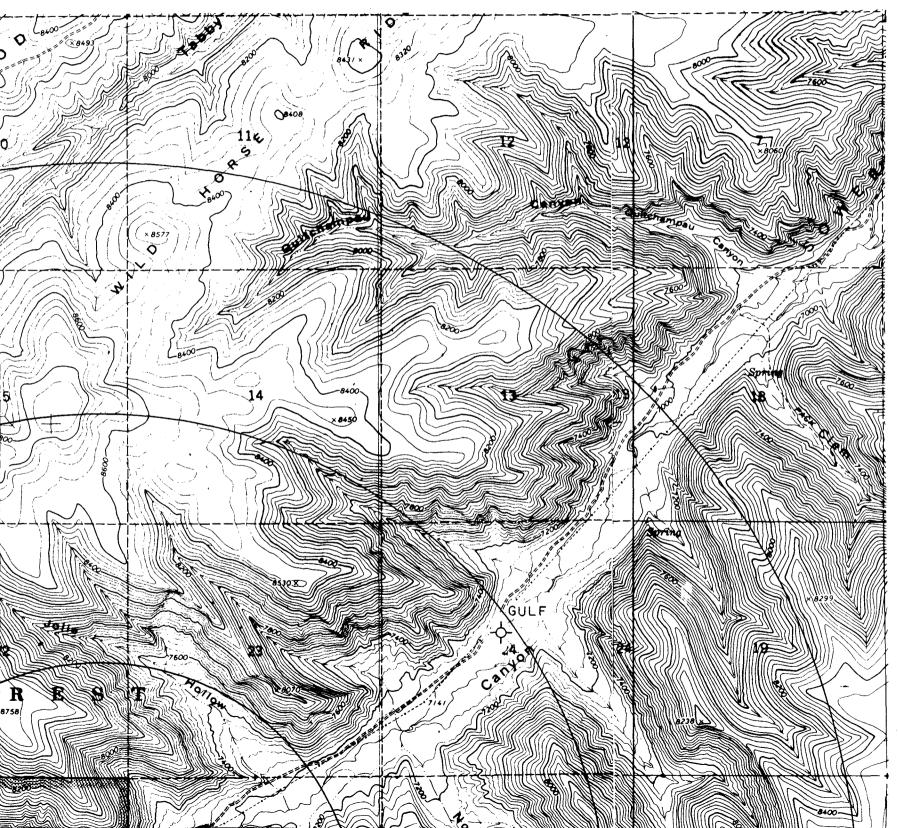
10. STARTING DATE:

June 15, 1979

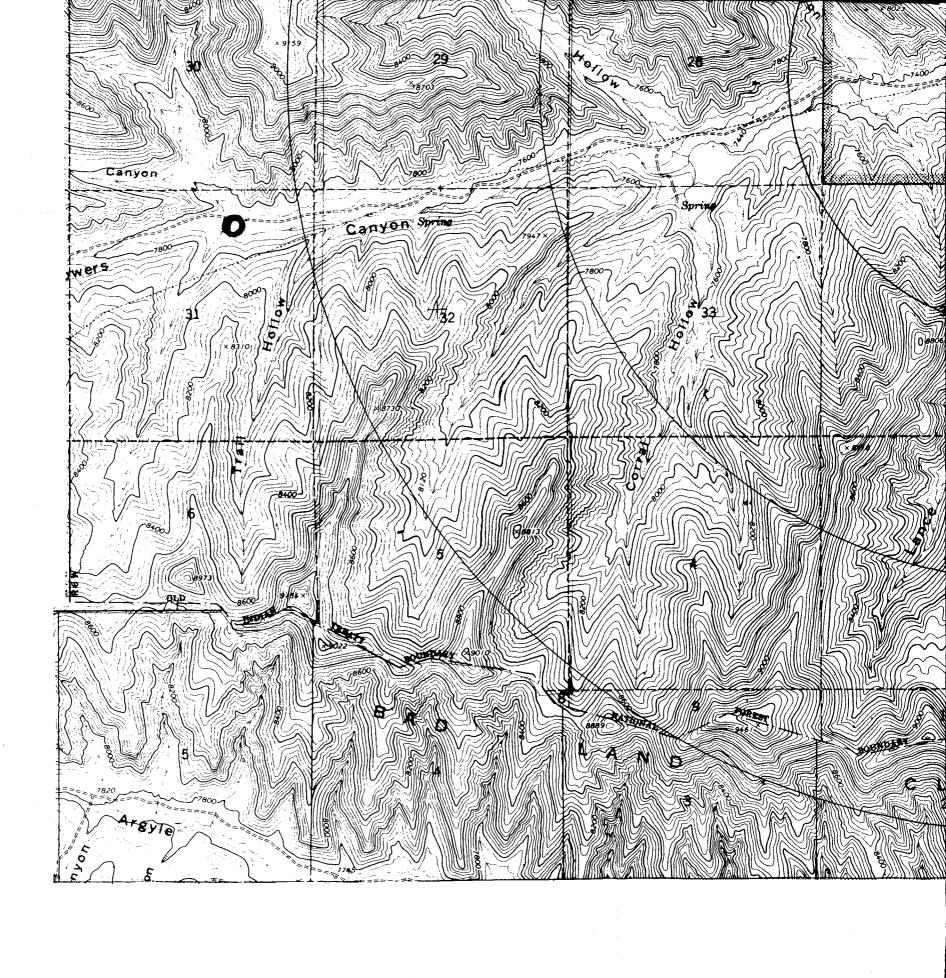
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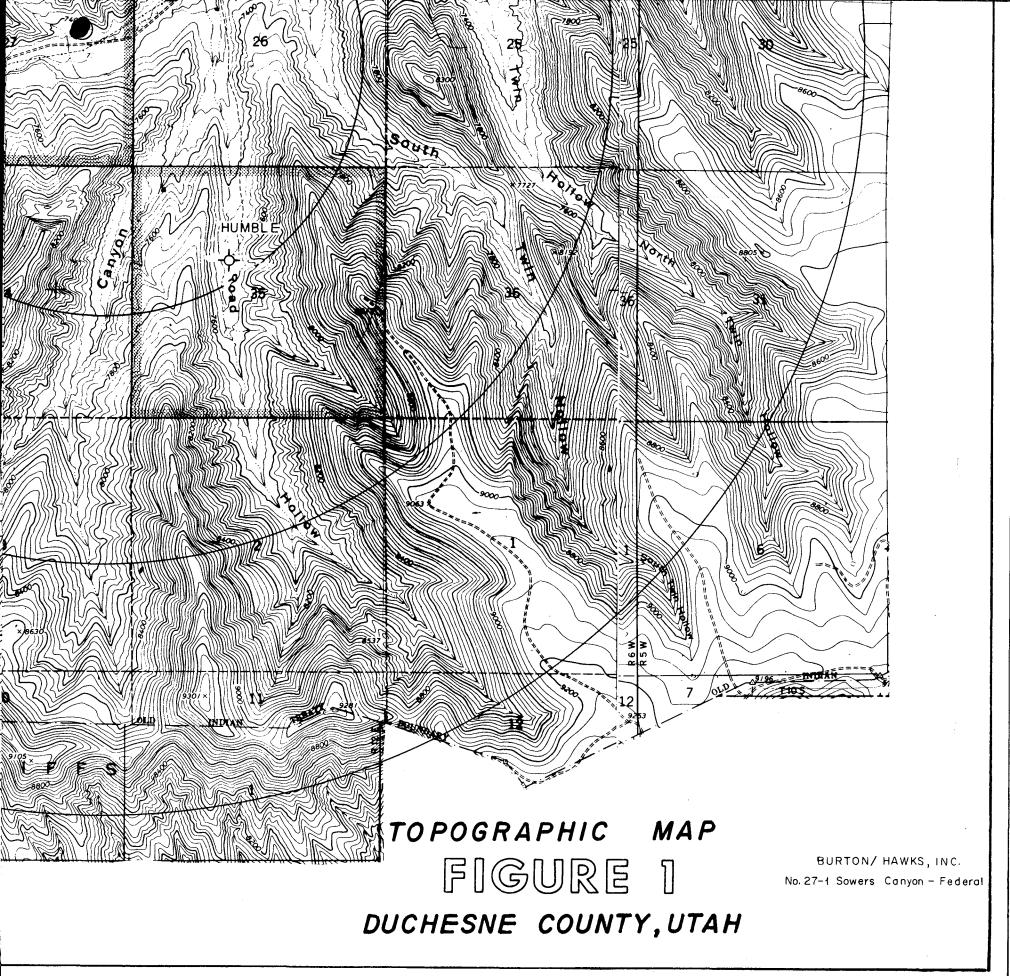


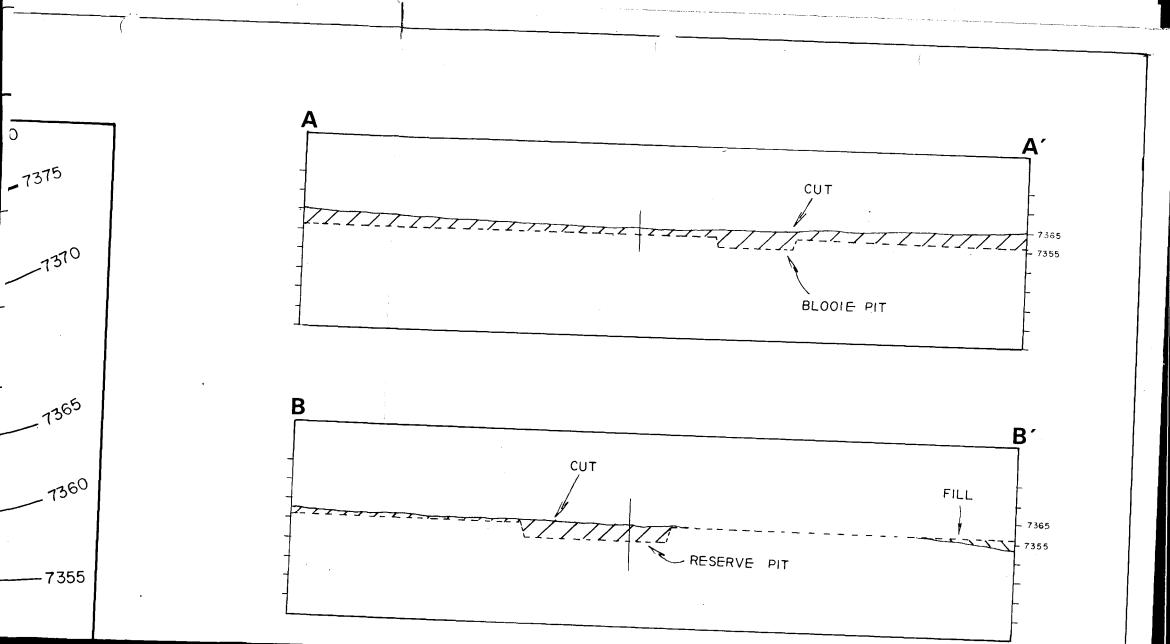
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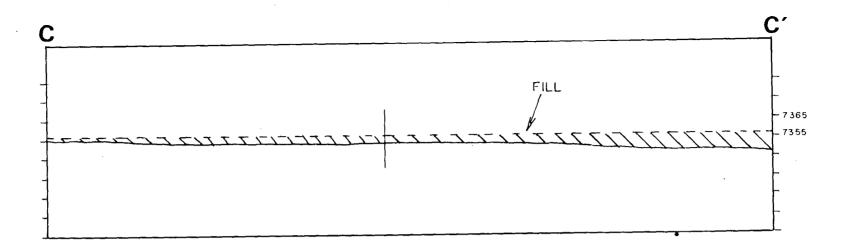






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BURTON/HAWKS, INC.

EXHIBIT- D

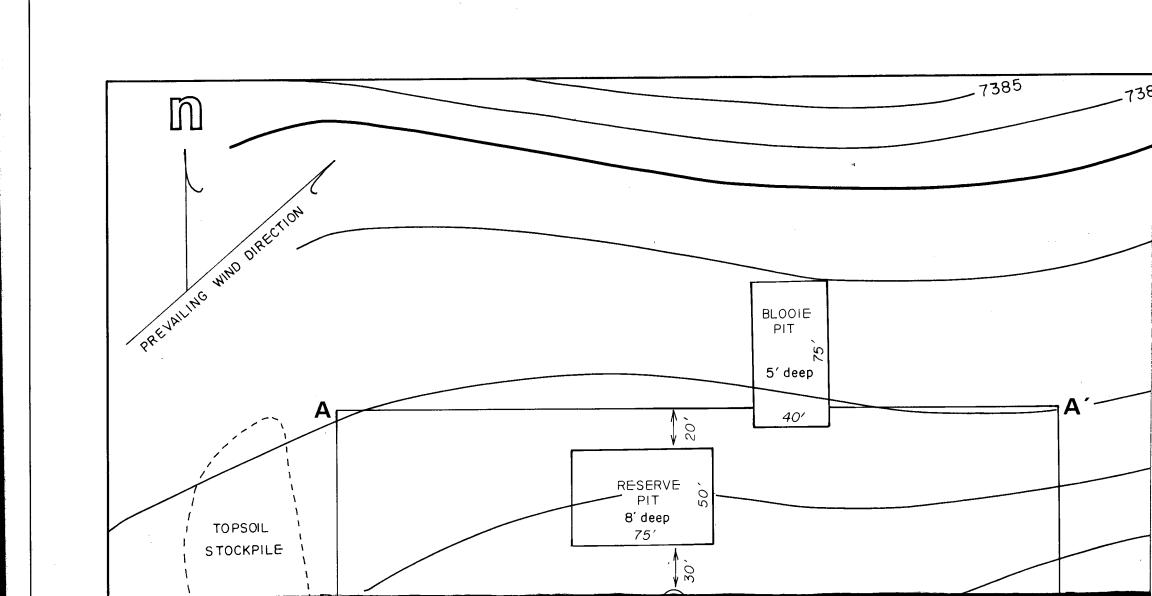
BURTON/HAWKS,INC. No.27-1 Sowers Canyon - Federal SW NE Sec.27, 6S-6W

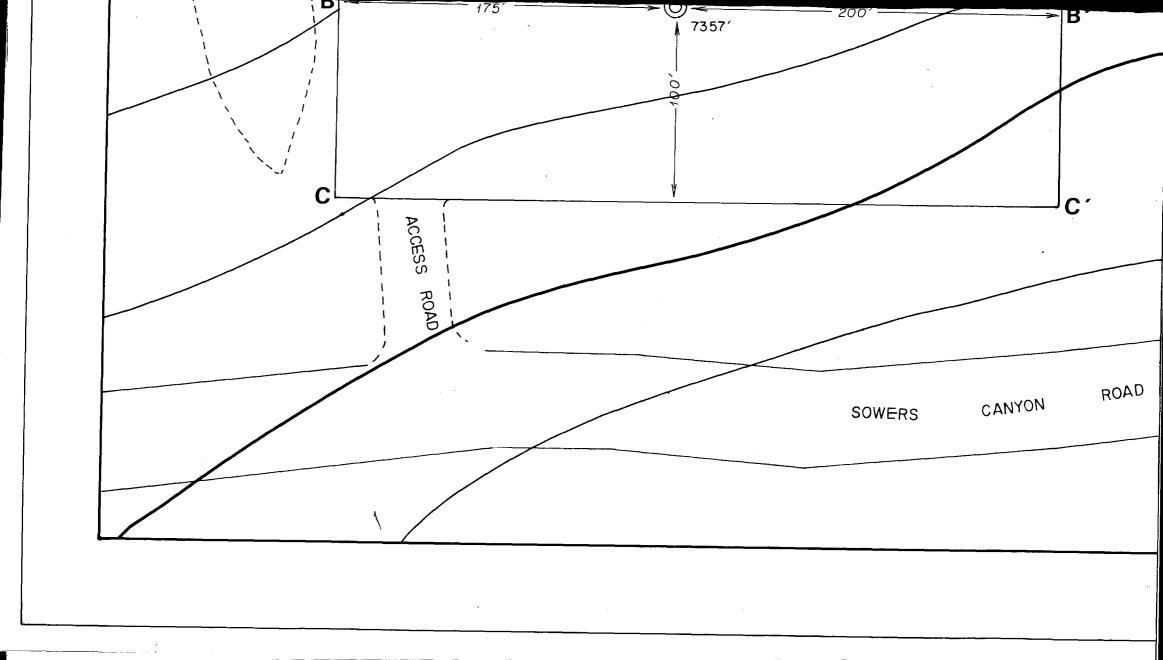
Interpretation by:

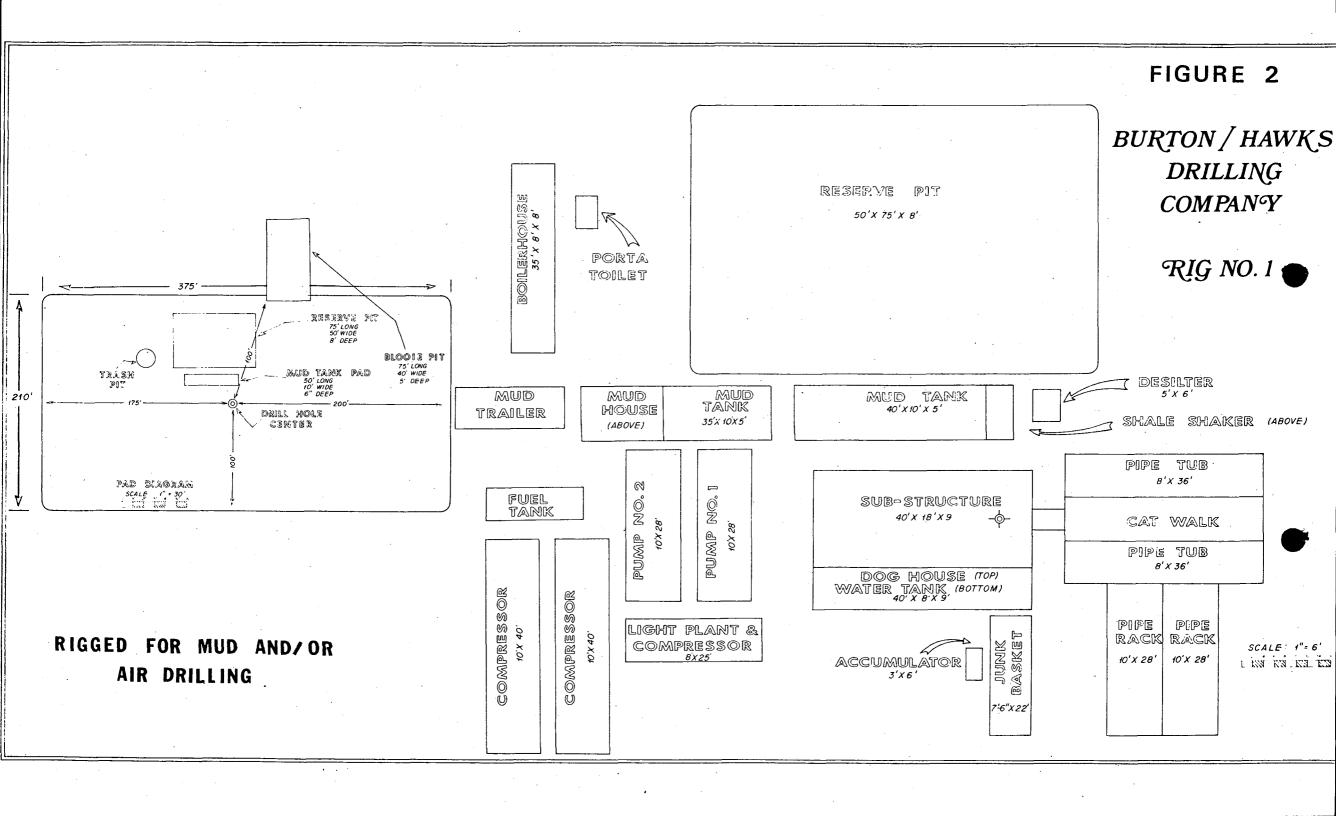
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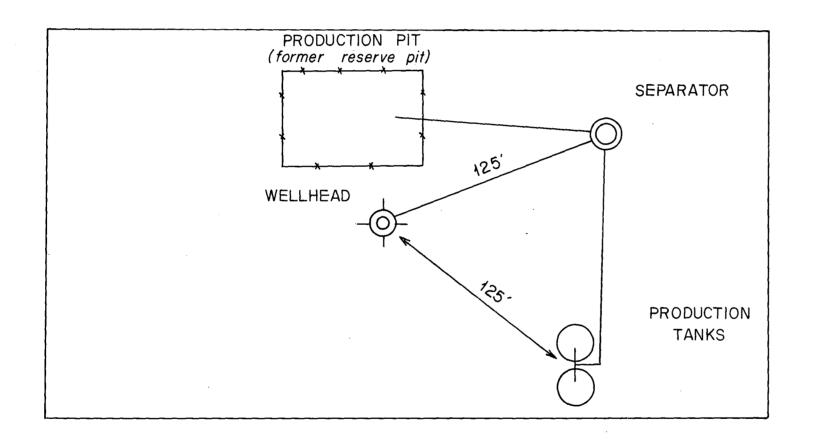
Date: MAY, 1979

Map Scale: 1"= 50 H&V









PRODUCTION FACILITIES

EXHIBIT - C

BURTON/HAWKS, INC.

UNITED STATES DEPARTMENT OF AGRICULTURE FOREST SERVICE

SURTON/HAWKS

An oy Vertocal Format The traiting of the Duchesna, Utoh 84021

湖南南州 网络动物作者 网络人名英格兰斯森 克尔斯 医巴克尔 克罗斯斯 经专门人请求不到 THE WALL TO STATE OF THE STATE OF

April 2, 1979

2820 Burton/Hawke, Inc. Sowers Cyn. Fed. #27-1

Twelve Mil Fed. #17-1

Mr. Ed Guynn, District Engineer U.S. Geological Survey 8440 Federal Building 125 South State Street Salt Lake City, Utah, 84138 April 2000 - Control Contr

this on my to a min to

PROTESTED TOURISM AND PROPERTY FOR ME AND STATE OF THE PERSON Dear Mr. Guynn:

We have reviewed Burton/Hawks, Inc.'s proposed drilling locations and the second secon would like to note the items that may be effected.

No known archaeological or historical sites have been identified.

- 1. Our forest archaeologist does not have time to do the required other cultural surveys. We request that Burton/Hawks furnish an approved archaeologist to survey the locations and access roads after staking. We have attached a current list of approved archaeologists.
- 2. Sowers Canyon Fed. #27-1 is located near Utah Power and Light high voltage transmission lines. We request that a safe distance be maintained between drill rig and lines. The Sowers Canyon roadbed may have to be cut down where the transmission lines pass over to maintain a safe underpass.
- 3. Sowers Canyon Fed. #27-1 is located near Sowers Canyon Creek. We request this site be located northwest of the proposed site, across the road in the mouth of the side canyon drainage. This would provide a greater buffer area between the creek and the reserve pits.
- Twelve Mile Creek Fed. #17-1 is located near an extremely deep gully, We request this site be located as near the existing road as possible. We prefer the location be moved to the northwest.
- 5. Twelve Mile Creek Fed.#17-1 is located in the wintering area of the elk herd. The elk use this area until the first part of June. We request that drilling or pad construction be performed after June 1, 1979, and completed by November 1, 1979.

- 6. If drilling operations take place during the grazing season, we request that cattleguards be installed at fence crossings. The cattleguards should be the H-20 type with built-in cleanouts. We will provide detailed specifications during the review of the operating plan.
- 7. Access to Sowers Canyon Fed.#27-1 requires crossing private land. We have no right-of-way agreement to cross these inholdings. We suggest an approved agreement between Burton/Hawks and the private landowners be submitted with the operating plan. This agreement should include access for exploratory drilling, partial and/or total responsation and operation-maintenance requirements. The private lands are owned by W. C. Foy Sons, Inc. and Melvir J. Abbott

Other than the items mentioned above, we have no objection to the surveying and staking of the proposed locations and access roads.

Thank you for this opportunity to review the proposed locations. We look forward to reviewing the surface use and operating plans.

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Sincerely told our serve and a grant of the first of the start

A. J. Frandsen

District Forest Ranger

Enclosure

cc: Burton/Hawks, Inc. w.o./enc.

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Metto

STATE OF UTAH DIVISION OF OIL, GAS, AND MINING

** FILE NOTATIONS **

Date: May 31, 1979	_
Operator: Burton Hawks	Ona.
•	
Well No: Sowers Canyon.	Federal 27-1
Location: Sec. <u>27</u> T. <u>65</u> R. <u>6</u> W	County: Duchesne
File Prepared: //	Entered on N.I.D.: //
Card Indexed: //	Completion Sheet: //
VAPI Number: 4	3- <u>0/3-30493</u>
CHECKED BY:	
·	
Administrative Assistant:	Andread and the first of the fi
Remarks:	
Petroleum Engineer: M.S. Min	Lu 6-11-79
Remarks:	
Director:	
Remarks:	
INCLUDE WITHIN APPROVAL LETTER:	
Bond Required: //	Survey Plat Required: //
Order No.	Surface Casing Change // to
Rule C-3(c), Topographic exception/co within a 660' radius of	mpany owns or controls acreage proposed site /
0.K. Rule C-3 //	O.K. In Unit
Other:	

/ Letter Written/Approved

First National Bank Building P. O. Box 359 Casper, Wyoming 82602 307/234/1593

June 6, 1979



Mr. Mike Mender Division of Oil, Gas, and Mining State of Utah 1588 West North Temple Salt Lake City, Utah 84116

Re: Burton/Hawks, Inc.

#27-1 Sowers Canyon-Federal SE NE Section 27, T6S, R6W Duchesne County, Utah

Dear Mr. Mender:

We are requesting an exception to the standard spacing pattern for this well. The Forest Service inspected this site at the time it was staked and found it to be the best location in regards to topography and maintaining a safe distance from the existing power line (See attached letter).

There are no other leaseholders within a 660' radius of this location.

Thank you,

BURTON/HAWKS, INC.

eienn R. Bochmann Field Representative

GRB:kca Encls. SCOTT M. MATHESON Governor

GORDON E. HARMSTON

Executive Director,

NATURAL RESOURCES

CLEON B. FEIGHT



OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON

JOHN L. BELL
C. RAY JUVELIN
THADIS W. BOX
CONSTANCE K. LUNDBERG
EDWARD T. BECK

E, STEELE McINTYRE

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS, AND MINING 1588 West North Temple Salt Lake City, Utah 84116 (801) 533-5771 June 11, 1979

BURTON/HAWKS INC P O BOX 359 CASPER WY 82602

Re: Well No. Sowers Canyon Federal 27-1, Sec. 27, T. 6S, R. 6W, Duchesne Ct., UT

Well No. Wire Fence Canyon 21-1, Sec. 21, T. 6S, R. 5W, Duchesne County, UT

Well No. Twelve Mile Creek Fed. 17-1, Sec. 17, T. 6S, R. 7W, Duchesne Ct., UT

Well No. Alkali Canyon Fed. 31-1, Sec. 31, T. 6S, R. 7W, Duchesne County, UT

Gentlemen:

The State of Utah, General Rules and Regulations, and Rules of Practice and Procedure, amended March 22, 1978, Rule C-3, "General Well Spacing Requirements" reads as follows:

- (a) The spacing of wells in pools for which drilling units have been established shall be governed by special rules for that particular pool.
- (b) All wells drilled for oil and/or gas which are not within an area covered by a special area spacing rule or which are not within a pool for which drilling units have been established, shall be located not less than 500 feet from any property or lease line or from the boundary of any legal subdivision comprising a governmental quarter-quarter section or equivalent lot or lots of comparable size and location and not less than 1000 feet from any oil well, or 4960 feet from any gas well, unless otherwise specifically permitted by order of the Commission after notice and hearing, unless an exception is granted by the Commission pursuant to Rule C-3(c).
- (c) The Commission may grant an exception to the requirements of (b) above as to the situs of a particular well location, without notice and hearing, where an application has been filed in due form and;

- (1) The necessity for an unorthodox location is based on topographical, and/or geological conditions, and;
- (2) The ownership of all oil and gas leases within a radius of 660 feet of the proposed location is common with the ownership of the oil and gas leases under the proposed location, or all owners of oil and gas leases within such radius consent in writing to the proposed location.
- (d) Whenever an exception is granted, the Commission may take such action as will offset any advantage which the person securing the exception may obtain over other producers by reason of the unorthodox location.
- (e) The spacing requirements of this rule shall not apply in cases where, in the opinion of the Commission, engineering practices have proven otherwise.

Your location appears to be an unorthodox well location and if it cannot be relocated to comply with Rule C-3(b) please submit an application for exception as outlined in Rule C-3(c).

You are also requested to furnish substantial information and data to support your application for an exception location. This may be in the form of a statement as to why this well cannot be located on general spacing and must be placed at the proposed location; it may include charts, maps, letters or other data which will provide this Division sufficient information on which to base a decision.

Yours very truly,

DIVISION OF OIL, GAS, AND MINING

Michael T. Minder, Geological Engineer

Michael J. Minder

MTM/1w

United States Department of the Interior Geological Survey 8440 Federal Building Salt Lake City, Utah 84138

Usual Environmental Analysis

Lease No. U_8919A	
Operator Burton & Hawks, Incorporated	Well No. <u>27-1</u>
Location 1117' FEL & 2453" FNL Se	c. <u>27</u> T. <u>6S</u> R. <u>6W</u>
County Duchesne s	tate <u>Utah</u> Field <u>Wildcat</u>
Status: Surface Ownership Public	Minerals Federal
Joint Field Inspection Date June 8,	1979
Participants and Organizations: .	
Greg Darlington	U.S. Geological Survey, Vernal
Jerry Larson	Forest Service, Duchesne
Joel Fransden	Forest Service, Duchesne
Dave Black	Forest Service, Vernal
Glenn Bochmann	Burton & Hawks, Inc.
Dallas Galley	D.E. Casada Construction
Related Environmental Analyses and Re	eferences: {
(1)	101 2453 PALL 4 DI MILL AND MI
(2)	Pag To be continued
Analysis Prepared by: Greg Darlington Environmental S	180 (180) (180
Date June 12, 1979 Vernal, Utah	Cremits: What was a second of the second of

Proposed Action:

On May 29, 1979, Burton and Hawks, Incorporated filed an Application for Permit to Drill the No. 27-1 exploratory well, a 3900-foot gas test of the Green River and Wasatch Formations; located at an elevation of 7357 ft. in the SE¼ NE¼ Section 27, T. 6S., R. 6W. on Federal mineral lands and Public surface; lease No. U-8919A. As an objection was raised to the wellsite, it was moved to 1117' FEL and 2453' FNL. This did not change the ¼ ¼ coordinates. There was no objection raised to the access road.

A rotary rig would be used for the drilling. An adequate casing and cementing program is proposed. Fresh-water sands and other mineral-bearing formations would be protected. A Blowout Preventor would be used during the drilling of the well. The proposed pressure rating should be adequate. Details of the operator's NTL-6 10-Point Subsurface Plan are on file in the USGS District Office in Salt Lake City, Utah and the USGS Northern Rocky Mountain Area Office in Casper, Wyoming. The 13-Point Surface Protection Plan is on file in the District Office in Salt Lake City.

A working agreement has been reached with the U.S. Forest Service, the controlling surface agency. Rehabilitation plans would be decided upon as the well neared completion; the Surface Management Agency would be consulted for technical expertise on those arrangements.

The operator proposes to construct a drill pad 200 ft. wide by 375 ft. long which includes a reserve pit 50 ft. by 75 ft. A new access road would be constructed at least 15 ft. wide by 100 feet long. An existing road would upgraded to at least 15 ft. wide by 6 miles long from a maintained road. The operator proposes to construct production facilities on disturbed area of the proposed drill pad. If production is established, plans for a gas flow line would be submitted to the appropriate agencies for approval. The anticipated starting date is June 1 and duration of drilling activities would be about 30 days.

Location and Natural Setting:

The proposed drillsite is approximately 43 miles southwest of Duchesne, Utah, the nearest town. A fair road runs to within 100 feet of the location. This well is a wildcat well.

Topography:

With the pad on the north slope of an alluvial valley bottom, the location presents a rather flat place for a well site. The site was moved southwest 75 ft. to situate it even better and eliminate some cut and fill. Steep ridges rise from the narrow valley but are not within 100 ft. of the pad.

Geology:

The surface geology is Green River Formation. The soil is a sandy clay with mixed shale and sandstone gravels. No geologic hazards are known near the drillsite. Seismic risk for the area is minor. Anticipated geologic tops are filed with the 10-Point Subsurface Protection Plan.

Approval of the proposed action would be conditioned that adequate and sufficient electric/radioactive/density logging surveys would be made to locate and identify any potential mineral resources. Production casing and cementing would be adjusted to assure no influence of the hydrocarbon zones through the well bore on these minerals. In the event the well is abandoned, cement plugs would be placed with drilling fluid in the hole to assure protection of any mineral resources.

A geologic review of the proposed action has been furnished by the Area Geologist, U.S. Geological Survey, Salt Lake City, Utah.

The operator's drilling, cementing, casing and blowout prevention programs have been reviewed by the Geological Survey engineers and determined to be adequate.

Soils:

No detailed soil survey has been made of the project area. The top soils in the area range from a sandy clay to a clay type soil. The soil is subject to runoff from rainfall and has a high runoff potential and sediment production would be high. The soils are mildly to moderately alkaline and support the salt-desert shrub community.

Top soil would be removed from the surface and stockpiled. The soil would be spread over the surface of disturbed areas when abandoned to aid in rehabilitation of the surface. Rehabilitation is necessary to prevent erosion and encroachment of undesired species on the disturbed areas. The operator proposes to rehabilitate the location and access roads per the recommendations of the Bureau of Land Management.

Approximately 1.7 acres of land would be stripped of vegetation. This would increase the erosional potential. Proper construction practice, construction of water bars, reseeding of slope-cut area would minimize this impact.

Air:

No specific data on air quality is available at the proposed location. There would be a minor increase in air pollution due to emissions from rig and support traffic engines. Particulate matter would increase due to dust from travel over unpaved dirt roads. The potential for increased air pollution due to leaks, spills, and fire would be possible.

Relatively heavy traffic would be anticipated during the drilling-operations phase, increasing dust levels and exhaust pollutants in the area. If the well was to be completed for production, traffic would be reduced substantially to a maintenance schedule with a corresponding decrease of dust levels and exhaust pollutants to minor levels. If the project results in a dry hole, all operations and impact from vehicular traffic would cease after abandonment. Due to the limited number of service vehicles and limited time span of their operation, the air quality would not be substantially reduced.

Toxic or noxious gases would not be anticipated.

Precipitation:

Annual rain fall should range from about 8 to 11" at the proposed location. The majority of the numerous drainages in the surrounding area are of a non-perennial nature flowing only during early spring runoff and during extremely heavy rain storms. This type of storm is rather uncommon as the normal annual precipitation is around 8".

Winds are medium and gusty, occurring predominately from west to east. Air mass inversions are rare. The climate is semi-arid with abundant sunshine, hot summers and cold winters with temperature variations on a daily and seasonal basis.

Surface Water Hydrology:

The area drains into nearby Sowers Creek, which drains into Antelop Creek and then flows into the Duchesne River. The Duchesne River flows into the Green River.

Some additional erosion would be expected in the area since surface vegetation would be removed. If erosion became serious, drainage systems such as water bars and dikes would be installed to minimize the problem. The proposed project should have minor impact on the surface water systems. The potentials for pollution would be present from leaks or spills. The operator is required to report and clean-up all spills or leaks.

Ground Water Hydrology:

Some minor pollution of ground water systems would occur with the introduction of drilling fluids (filtrate) into the aquifer. This is normal and unavoidable during rotary drilling operations. The potential for communication, contamination and comingling of formations via the well bore would be possible. The drilling program is designed to prevent this. There is need for more data on hydrologic systems in the area and the drilling of this well may provide some basic information as all shows of fresh water would be reported. Water production with the gas would require disposal of produced water per the requirements of NTL-2B. The depths of fresh water formations are listed in the 10-Point Subsurface Protection Plan. The pits would be unlined. If fresh water should be available from the well, the owner or surface agency may request completion as a water well if given approval.

Vegetation:

Sagebrush and native grasses are at this location. Pines and cedars are on the nearby ridges.

Proposed action would remove about 1.7 acres of vegetation. Removal of vegetation would increase the erosional potential and there would be a minor decrease in the amount of vegetation available for grazing.

The operator proposes to rehabilitate the surface upon completion of operations according to the specifications of the U.S. Forest Service.

Wildlife:

The fauna of the area consists predominantly of mule deer, elk, coyotes, rabbits, foxes, and varieties of small ground squirrels and other types of rodents and various types of reptiles. The area is used by man for the primary purpose of grazing domestic livestock and sheep. The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

Social-Economic Effect:

An on the ground surface archaeological reconnaissance would be required prior to approval of the proposed action. Appropriate clearances would then be obtained from the surface managing agency. If a historic artifact, an archaeological feature or site is discovered during construction operations; activity would cease until the extent, the scientific importance, and the method of mitigating the adverse effects could be determined by a qualified cultural resource specialist.

(DONE)

There are no occupied dwellings or other facilities of this nature in the general area. Minor distractions from aesthetics would occur over the lifetime of the project and is judged to be minor. All permanent facilities placed on the location would be painted a color to blend in with the natural environment. Present use of the area is grazing, recreation, and oil and gas activities.

Noise from the drilling operation may temporarily disturb wildlife and people in the area. Noise levels would be moderately high during drilling and completion operations. Upon completion, noise levels would be infrequent and significantly less. If the area is abandoned, noise levels should return to pre-drilling levels.

The site is not visible from any major roads. After drilling operations, completion equipment would be visible to passersby of the area but would not present a major intrusion.

The economic effect on one well would be difficult to determine. The overall effect of oil and gas drilling and production activity are not significant in Duchesne County.

But should this well discover a significant new hydrocarbon source, local, state, and possible national economics might be improved. In this instance, other development wells would be anticipated, with substantially greater environmental and economic impacts.

Should the wellsite be abandoned, surface rehabilitation would be done according to the surface agency's requirements and to USGS's satisfaction. This would involve leveling, contouring, reseeding, etc., of the location and possibly the access road. If the well should produce hydrocarbons, measures would be undertaken to protect wildlife and domestic stock from the production equipment.

There are no national, state, or local parks, forests, wildlife refuges or ranges, grasslands, monuments, trails or other formally designated recreational facilities near the proposed location.

Waste Disposal:

The mud and reserves pits would contain all fluids used during the drilling operations. A trash pit would be utilized for any solid wastes generated at the site and would be buried at the completion of the operations. Sewage would be handled according to State sanitary codes. For further information, see the 13-Point Surface Plan.

Alternative to the Proposed Action:

- (1) Not approving the proposed permit-The oil and gas lease grants the lessee exclusive right to drill for, mine, extract, remove and dispose of all oil and gas deposits. Under leasing provisions, the Geological Survey has an obligation to allow mineral development if the environmental consequences are not too severe or irreversible. Upon rehabilitation of the site, the environmental effects of this action would be substantially mitigated, if not totally annulled. Permanent damage to the surface and subsurface would be prevented as much as possible under USGS and other controlling agencies supervision with rehabilitation planning reversing almost all effects. Additionally, the growing scarcity of oil and gas should be taken into consideration. Therefore, the alternative of not proceeding with the proposed action at this time is rejected.
- (2) Minor relocation of the wellsite and access road or any special, restrictive stipulations or modifications to the proposed program would not significantly reduce the environmental impact. There are no severe vegetative, animal or archaeological-historical-cultural conflicts at the site. Since only a minor impact on the environment would be ex-

pected, the alternative of moving the location is rejected. At abandonment, normal rehabilitation of the area such as contouring, reseeding, etc., would be undertaken with an eventual return to the present status as outlined in the 13-Point Surface Plan.

- (3) Drilling should be allowed provided the following mitigative measures are incorporated into the proposed APD and adhered to by the operator.
 - (a) The wellsite and pad are moved 75 ft. southwest of their present location to lessen cut and fill.
 - (b) The blooie pit is reshaped according to the design suggested by the dirt contractor and kept a minimum of 100 ft. from the well-site.
 - (c) Cattleguards are upgraded or placed where needed according to agreements between the operator and the Forest Service or private landowners on the access route. These cattleguards must be of sufficiently heavy duty quality to meet the needs of the drilling rig traffic.
 - (d) A trash cage is to be used instead of a trash pit and all refuse is to be suitable removed from the location at the completion of the drilling activities.
 - (e) The reserve pits are to be fenced according to the Fish and Wildlife Service and the USFS specifications.
 - (f) The access road is to be moved about 10 feet away from the Sowers Creek at one place where it comes very close to a steep bank of the creek.
 - (g) The operator agrees to be careful regarding the possible hazard where a power line crosses the access road near the drilling site and is located about 200 feet south of the pad.

Adverse Environmental Effects Which Cannot Be Avoided:

Surface disturbance and removal of vegetation from approximately 1.7 acres of land surface for the lifetime of the project which would result in increased and accelerated erosional potential. Grazing would be eliminated in the disturbed areas and there would be a minor and temporary disturbance of wildlife and livestock. Minor induced air pollution due to exhaust emissions from rig engines of support traffic engines would occur. Minor increase in dust pollution would occur due to vehicular traffic associated with the operation. If the well is a gas producer, additional surface disturbance would be required to install production pipelines. The potential for fires, gas leaks, and spills of oil and

water would exist. During the construction and drilling phases of the project, noise levels would increase. Potential for sub-surface damage to fresh water aquifers and other geologic formations exists. Minor distractions from aesthetics during the lifetime of the project would exist. If the well is a producer, an irreplaceable and irretrievable committment of resources would be made. Erosion from the site would eventually be carried as sediment in the Duchesne River. The potential for pollution to Sowers Creek would exist through leaks and spills

Determination:

This requested action $\frac{1}{2}$ does not constitute a major Federal action significantly affecting the environment in the sense of NEPA, Section 102(2)(C).

Date 6/19/79

District Engineer U.S. Geological Survey

Conservation Division Oil and Gas Operations Salt Lake City District

STATES SUBMIT IN TRIP (Other instruction verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

	GEOLOGICAL SURVEY		U-	·8919 A	
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Burton/Hawks, Inc	·	JUL 11 1970		_	
ADDRESS OF OPERATOR	<u></u>	DIVISION OF C	9.	WELL NO.	
P.O. Box 359, Cas	sper, Wyoming 82602	MINING	No	. 27-1 Sower	s Canvon F
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	·			07 -64	
. PERMIT NO.	15. ELEVATIONS (Show whether DF,	, RT, GR, etc.)	<u>Se</u>	C. 27, T6S-F	
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· Ch	ieck Appropriate Box To Indicate N	lature of Notice, Report,	, or Other	Data	
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TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF		REPAIRING W	ELL
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT		ALTERING CAS	SING
SHOOT OR ACIDIZE	ABANDON*	shooting or acidizing (Other) Spud well.		ABANDONMEN	r* e X
REPAIR WELL	CHANGE PLANS	(Other) Spud Well.	T-DEC C	ultiple completion o	n Well
(Other)	ETED OPERATIONS (Clearly state all pertinents directionally drilled, give subsurface locationally	Completion or R	ecompletion	Report and Log fori	n.)
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June 30, 1979	Spudded. Drilled 40' of casing.		3' of 1	3-3/8" 48# 1	joint
June 30, 1979	Spudded. Drilled 40' of casing. Rig released.		3' of 1	3-3/8" 48# 1	joint
June 30, 1979 July 1, 1979	Spudded. Drilled 40' of casing. Rig released.			DATE _July_	

DATE

APPROVED BY _______ CONDITIONS OF APPROVAL, IF ANY;



LITE RESEARCH LABORATORIES

P.O. Box 119

Fort Duchesne, Utah 84026

(801) 722-2254

LABORATORY P SAMPLE TAKEN SAMPLE RECEIV RESULTS REPOR	/ED	7-30-79			
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FIELD COUNTYDUC					
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SODIUM - Na +	350.0	15.22	 		
- Tooling Tig	330.0	13.22	 		
BARIUM (INCL. STRONTIUM) - Ba ++	3.4	0.05	1		
TOTAL IRON - Fe++ AND Fe+++	110.0	3.93	51.9		
BICARBONATE - HCO3	640-6	10.50	121.8-		
CARBONATE - CO3 TT	150.0	5.00			
SULFATE - SO4	1.030.0	21.46			j
CHLORIDE - CL =	528.95	14 90	51.9		12 to
TOTAL DISSOLVED SOLIDS	9.480.0	14.90	21.4		
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	•	ANALYST_			_

CHECKED.

SCOTT M. MATHESON
Governor

GORDON E. HARMSTON

Executive Director,

NATURAL RESOURCES

CLEON B. FEIGHT

Director



OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON

JOHN L. BELL C. RAY JUVELIN THADIS W. BOX

THADIS W. BOX
CONSTANCE K. LUNDBERG
EDWARD T. BECK
E. STEELE MGINTYRE

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS, AND MINING 1588 West North Temple Salt Lake City, Utah 84116 (801) 533-5771

June 12, 1979

BURTON/HAWKS INC P O BOX 359 CASPER WY 82602

Re: Well No. Sowers Canyon Federal 27-1, Sec. 27, T6S, R6W, Duchesne County, UT Well No. Alkali Canyon Federal 31-1, Sec. 31, T6S, R7W, Duchesne County, UT

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to wells on said unorthodox location is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon these wells, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Geological Engineer

HOME: 876-3001 OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API numbers assigned to these wells are as follows:

Sowers Canyon Federal 27-1, 43-013-30493 Alkali Canyon Federal 31-1, 43-013-30494

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

Cleon B. Feight, Director

/1w

cc: U. S. Geological Survey

	DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH	-1 1 2010
	APD MINERAL EVALUATION REDIRT	LEASE NO U - 8919
ERATOR:	Burton/Hawks Inc	WELL NO. No 27-1 Sowers Canyon Fed
CATION:	½ SE ½ NE ½ sec. 27, T. 65, R.	W, USM
	Duchesne County, Utah	
		

Stratigraphy: Surface - Green River Fm. - Upper Parachute Creek Mbr Operator tops are reasonable.

in the Middle of the Green River Fm. and Saline water In the lower Part. Fresh water may be found to a depth of ~ 3300! Leasable Minerals: In oil shale withdrawl 5327 Cashions maps do not extend into the area, but oil shale is believed to be relatively shallow.

Fresh Water:

\$ 6 Journal 1-16-78"

An oil test in sec. 35 (same Township) reported fresh water

Detail log of cuttings through oil shale zone Additional Logs Needed: Geophysical logs should be run from TO to surf to adequately define oil shale and gas producing Intervals.

Potential Geologic Hazards: Brinkerhoff to Tabby Canyon Unit, sec 15 (same Twp)

reported lost circulation at: 2702, 7050, 3062, 3264, 540; 6129, 6680'. The same well (Gr. 8880) had severe hole deviation problems below 375'. Also, slight geopr. May be expected. Gulf #1, sec 12 65 REW reported: References and Remarks: { water 1700-1800 } tar sand 3300-3400 In Indian Canyon Unit. 15,65. files

(sand porosity 3955-4005 Baul mattery

SIGNED .

SUBMIT IN DU

PL E
(Some per in-
structions on
reverse side)

Form approved. Budget Bureau No

5.	LEASE	DESIG	NATION	AND	SERIAL	NO.
			14.	44	_ y	
			٠,		▼ /	-

DATE

}		GEOLOGIC	AL SURVEY	′	reve	rse side)	U-8919	
WELL CO	MPLETION	OR RECO	MPLETION	REPORT	AND LO	G *	6. IF INDIAN,	ALLOTTER OR TRIBE N
1a. TYPE OF WE	LL: OII				•		7. UNIT ACRE	EMENT NAME
b. TYPE OF COM	IPLETION:						Indian	Canyon Original
NEW WELL	OVER L. EN	EP- PLUG BACK	DIFF. DESVR.	Other			S. FARM OR I	BASD NAME
2. NAME OF OPERA	rom Hawks, Inc.		1 · · · · · · · · · · · · · · · · · · ·				9. WELL NO.	
3. ADDRESS OF OPE				<u> </u>	<u> </u>			versCanyon Fed.
	x 359, Cas		82602	<u> </u>	•			D POOL, of WILDCAT
4. LOCATION OF WE	ELL (Report locat	ion clearly and in	accordance with an	ıy State requir	ements)*		Wildcat	
SE		7' FEL/245	3' FNL)				OR AREA	M., OR BLOCK AND SURVE
At top prod. in	terval reported b	elow				•	Sec. 27,	т6S-R6W
At total depth								<u> </u>
· ·	• .		14. PERMIT NO.	M93 1	DATE ISSUED		12. COUNTY OF	
15. DATE SPUDDED	16. DATE T.D.	REACHED 17. DA	re compl. (Ready t	o prod.) 18.	ELEVATIONS (DF, RKB, RT	Duchesne	19. blev. casinghead
6/30/79	8/6/79			73	57GR 73	68KB		
20. TOTAL DEPTH, MD		UG, BACK T.D., MD 4	TVD 22. IF MUI HOW M	TIPLE COMPL.,	57GR 73	ERVALS LLED BY	ROTARY TOOL	S CABLE TOOLS
4144' 24. PRODUCING INTE	RVAL(S). OF THIS	COMPLETION—TO	P. BOTTOM, NAME (MD AND TVD)*		<u>→ </u>	X	25. WAS DIRECTIONAL
2.1	1,12(2), 02 11110		1			•		SURVEY MADE
	N/	'A	in .					NO
26. TYPE ELECTRIC			2:					27. WAS WELL CORED
28.	- GR - SP;		TWG PWGORD (Page					NO
CASING SIZE	WEIGHT, LB.		ING RECORD (Rep	LE SIZE	<u> </u>	MENTING R	ECORD	AMOUNT PULLED
9 5/8"	32#	357'	124'	1	200sx Cla	ass G.	Cella fl	ake
7"	23#	2330'	8 3	3/4"	75 sx Cla	ass G.	2% CaCl	555'
				· · · · · · · · · · · · · · · · · · ·				
29.		LINER RECORI)		30.	T	UBING RECOR	RD
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD) SIZE	Di	EPTH SET (MD) PACKER SET (MD)
31. PERFORATION RE	CORD (Interval, 8	ize and number)		32.	ACID SHOT	ETP A CITE	DE CENENE	SOUEEZE, ETC.
		•		DEPTH INTI		1		OF MATERIAL USED
		4						
			-					
								<u> </u>
33.*			PROI	OUCTION		<u> </u>		
DATE FIRST PRODUCT	YION PROD	UCTION METHOD (Flowing, gas lift, pr	umping—size a	nd type of pur	np)	WELL S'	TATUS (Producing or in)
DATE OF TEST	HOURS TESTED	CHOKE SIZE	I propiet won	Att. 507	0.10	~	<u> </u>	<u> </u>
JAZZ OF IZEST	HOURS TESTED	CHORE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS-M	CF.	WATER-BBL.	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSU		OIL—BBL.	GASM	CF.	WATER-I	BL.	OIL GRAVITY-API (CORR.)
		24-HOUR RAT						
34. DISPOSITION OF G	AS (Sold, used for	r fuel, vented, etc.					TEST WITNESS	DD BY
35. LIST OF ATTACH	MENTS	 		<u>- </u>				
DIL - G	R - SP: GR	-N: DRILL	rime log: DA	ILY REPO	RTS, WATE	R ANAI	YSIS	
36. I hereby certify	tnat the foregoin	ng and attached i						the state of the s
OTONIO :			1	Explorati	on Manag	er		August 29, 1979

TITLE

Wellborn

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal completion report and log on all types of lands and leases to either a Federal agency or a State agency See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions. This form is designed for submitting a complete and correct well or both, pursuant to applicable Federal and/or State laws and regulations. and/or State office.

Hems 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval or intervals. ton(s) bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, Consult local State Hem 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. It there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. showing the additional data pertinent to such interval for each additional interval to be separately produced, or Federal office for specific instructions.

"Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. each interval to be separately produced. (See instruction for items 22 and 24 above.) Hem 33: Submit a separate completion report on this form for tem 29:

IRS	TOP		1			and the second s	100 100 100 100	
GEOLOGIC MARKERS		MEAS. DEPTH		Surface	4110			
38. GEOL	- F	NAME		Green River Formation	Wasatch	Formation	:	
CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING AND SHUT-IN PRESSURES, AND RECOVERIES			making small amount	<pre>immediately below surface casing while air drilling.</pre>	making abundant	ariling; estimate 500 BWPH	Small amount of water while air drilling	
OSITY AND CONTENT	BOTTOM		C•		٠.		۲.	
MARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; DEFTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING	TOP		357		1500'		2350'	
37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF DEFTH INTERVAL TESTED, CUSH	FORMATION		Green River		Green River		Green River	

871-233

17

37-497

DEPARTMENT OF THE INTERIOR (Other Instruction verse side)

Form approved, Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

GEOLOGICAL SURVEY	U-8919 A
SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
I. OIL GAS WE'LL OTHER DRY HOLE	7. UNIT AGREEMENT NAME Indian Canyon Unit
2. NAME OF OPERATOR	8. FARM OR LEASE NAME
Burton/Hawks, Inc.	
3. ADDRESS OF OPERATOR	9. WELL NO.
P.O. Box 359, Casper, Wyoming 82602	27-1 Sowers Canyon Fed
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface	10. FIELD AND POOL, OR WILDCAT Wildcat
SE ¹ 4 NE ¹ 4 (1117' FEL/2453' FNL)	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
	Sec 27, T6S-R6W
14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY OR PARISH 13. STATE
7357' GR, 7368' KB	Duchesne UTAH
16 CLIA DT LL AL CALL D	O.I. D.

NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

(Other) Comp	ete	Well		(Note: Report re Completion or Rec	sults d	of multiple completion on Well tion Report and Log form.)
REPAIR WELL		CHANGE PLANS		(Other)	<u> </u>	` '
SHOOT OR ACIDIZE		ABANDON*	XX-	SHOOTING OR ACIDIZING	٠ ــــــ	ABANDONMENT*
FRACTURE TREAT	·	MULTIPLE COMPLETE		FRACTURE TREATMENT		ALTERING CASING
		-	1		I	-

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

Spudded well. Set 43' of 13-3/8" conductor pipe. June 30, 1979:

July 25, 1979: Burton/Hawks Rig #1 on Location, Drilling 12 1/4" hole.

Drilled $12\frac{1}{4}$ " hole to 357'. Set 357' of 9-5/8" surface casing July 28, 1979:

with cement to surface.

July 29, 1979: Drilled 8-3/4" Hole with air to 2330'. Set 2330' of 7" casing $w/75~{\rm sx}$

cement.

August 3,1979: Hit water 2341'. Drilling with soap-mist; 6-1/8" hole.

August 4,1979: 2750' gas flashing, died out.

August 5,1979: 3881' logged hole with DIL-GR-SP, GR-N. Did not get to top of Wasatch.

August 6,1979: Made scum of oil to pit from 3820' to 4144 T.D. Top of Wasatch 4110'.

August 8,1979: Shot off and recovered 555' of 7" casing. Set the following plugs:

3900-4100' 60 sx

2250-2500'

60 sx across base of 7" casing

300 - 400'

90 sx across top of 7" casing and across

base of surface casing.

Surface

10 sx with marker

8. I hereby certify that the foregoing is true and correct		
signedRobert E. Wellborn	TITLE Exploration Manager	DATE August 29, 1979
(This space for Federal or State office use)		
APPROVED BYCONDITIONS OF APPROVAL, IF ANY:	TITLE	DATE

#27-1 Sowers Canyon-Federal NESE Sec. 27, T6S, R6W Duchesne County, Utah 307 234

Revised: 8-7-79 REW

1593

	Bob Median
6-27-79	Moving in.
6-28-79	Spudder on location. Preparing to spud conductor hole.
6-30-79	Spudded 8 a.m., 6-30-79. Drilled 40' of 17" hole. Set 43' of 13-3/8" 48# 1 joint csg. Rig released 7-1-79, waiting on Burton/Hawks Rig #1.
7-25-79	Present operation: Rigging up.
7-26-79	Preparing to spud.
7-27-79	Spudded 10:30 p.m., 7-26-79. Drilling at 168', 124" hole.
7-28-79	Depth 357'. Ran 9 joints of 9-5/8", 32# casing. Cemented w/200 sx Class "G" cement w/4# cella flake. Present operation: nippling up.
7-29-79	Depth 793'. Made 436' in 13-3/4 hrs drilling. Present operation: Drilling 8-3/4" hole. Made small amount of water immediately below casing. Went to soap-mist drilling. Small gas flare at 561.
7–30–79	Depth 1793'. Made 1,000' in 16-3/4 hrs drilling. Present operation: Tripping out, reserve pit broke; are waiting on bulldozer to repair. Started making small gas flare on connections at 1155') Started making much water at 1500' (est. 500 bbls/hr). Overflowed blooie pit. Changed over to drilling with water from 1655' to 1842'.
7-31-79	Depth 2198'. Made 405' in $9\frac{1}{2}$ hrs drilling. Present operation: Waiting on blooie pit. Resumed air drilling at 1842'. Five water trucks hauling out of pit, but could not keep up, and pit broke. Changed over to mud drilling at 2229'.
8-1-79	Depth 2330'. Made 100' in 6½ hrs drilling. Present operation: Circulate hole for casing.
8-2-79	Depth 2330'. Ran 60 jts of 7" csg. Set at 2330' KB. Cemented w/75 sx of type G cement w/2% CaCl; full returns. 335' of cement behind csg (calculated). Present operation: WOC.
8-3-79	Depth 2622'. Made 292' in 7½ hrs drilling. Hit water at 2341'. Present operation: Drilling with soap-mist, 6-1/8" hole.
8-4-79	Depth 3482'. Made 840' in 24 hrs drilling. Present operation: Drilling. Conn. gas at 2682'. Some gas flashing while air drilling at 2750'; died out rapidly.
8-5-79	Depth 3881'. Made 399' in 12 hrs drilling. Ran Dresser-Atlas DIL-GR-SP in open hole and GR-N in cased hole. Did not get top of Wasatch on logs. Present operation: Trip in hole.
8-6-79	Depth 4144'. Made 263' in 8 hrs drilling. Top of Wasatch 4110'. Made a scum of oil to the pit from 3820' to T.D. (total of 1/2 to 1 BO). Set

Present operation: Lay down drill pipe.

plugs from:

#27-1 Sowers Canyon-Federal NESE Sec. 27, T6S, R6W Duchesme County, Utah Page Two

8-7-79

Preparing to run free point and shoot off 7" casing; will set the following additional plugs:

200' plug across top of casing stub

100' plug from 300-400'

10 sx at surface with marker

8-8-79

Shot off and recovered 555' of 7" casing. Summary of plugging:

3900-4100/ 60 sx

2250-2500' 60 sx across bas of 7" casing

300-400' 90 sx across top of 7" casing and across base of surface

casing

Surface 10 sx with marker

8-9-79

Moving to Indian Canyon

DIVISION OF OIL, GAS AND MINING

PLUGGING PROGRAM

NAME OF	WE OF COMPANY: Burton-Hawks				(Bob Wellborn)					
WELL NA	YE: Sawer	s Canyon	Federal	#27-	1					
SECTION_	<u>27</u> T	OWNSHIP	6S.	R	NGE	5W	COUNTY_	Suches	10	
VERBAL A	APPROVAL GIVE	N TO PLUG	THE A	BOVE F	EFERRE	D TO WELL	L IN THE	FOLLOWI	NG	
Total Di	EPTH: 4144	!								
CASING I	PROGRAM:				FOR	MATION T	OPS:			
9 5/8	8" @ 360' Ci	rculated	to surf	sace		Wasatch	4110			
7" @	2330' 75 sx openhole T.D					Water er	icountere (900 ppm		00 =	
Will	Run freepoin pulled	t and cut	casing	3 &						
PLUGS SI	ET AS FOLLOWS	:								
#1)	3900'-4100'		200'							
#2)	2250'-2500'		250'							
#3)	300'-400'	•	100'	½ in	½out			·		
#4)	30-surf		30 '							
DATE	August 5, 1	979 10:0	0 р.m.		SIGNEI	111.	Michael	Lecci T. Minde	les	

Form	
(April	1952)

UNITED STATES

EA	373
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INTERIOR

:				DECEMPENT OF THE INT
			+	GEOLOGICAL SURVEY CONSERVATION DIVISION
	2	7		SEP 1 7 1992 CONSERVATION DIVISION
				TATELTATION AT AVAILATE TO BE

DBC		
Т	6S	
R	6W	
USB	&	Mer.

DIVISIONOF	VIDUAL	WELL	RECORD
F 38 M 1 ~ 38 SPM 4 P2~			

PUBLIC LAND:	OIL GAS & MINING Da	to June	22, 1979 Ref. No. 4
Land office	Utah		State <u>Utah</u>
Serial No	8919-A		County Duchesne
Lessee Bur	rton/Hawks, Inc., e	tal	Field Wildcat (Indian Canyon Unit)
Operator Bui	rton/Hawks, Inc.		District Salt Lake City
Well No27-	-1 Sowers Canyon		Subdivision SEM NEM
Location	1117' FEL & 2453' F	<u>YL</u>	
Drilling appro	ved June 22	_ , 19 _ <u>79</u> _	Well elevation 7357 GR; 7368 KB fee
Drilling comm	enced June 30	, 19 <u>79</u>	Total depth 4144 feet
Drilling ceased	August 6	_, 19_79_	Initial productionDry
/	-	•	Gravity A. P. I
Abandonment	approved aug 3/	, 1992	Initial R. P.
Goologia	Formations		Productive Horizons
Surface	Lowest tested	Nas	Productive Horizons one .Depths Contents
<u>Green River</u>	Wasatch		
WELL STATUS			

YEAR	Jan.	FEB.	Mar.	Apr.	May	JUNE	JULY		SEPT.	Ост.	Nov.	DEC.
1979						spud		D 414 Abd.	1			
N#====#									,			
				 								<u> </u>

REMARKS Geologic Markers: see well file
casing record: 9 5/8" cc 0 357' w/200 sxs.
7" cc @ 2330' w/75 sxs.